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**United States Patent** [19][11] **Patent Number:** **5,432,790****Hluchyj et al.**[45] **Date of Patent:** **Jul. 11, 1995**

[54] **METHOD FOR ALLOCATING INTERNODAL LINK BANDWIDTH IN A PACKET ORIENTED COMMUNICATION NETWORK TO GUARANTEE DELAY QUALITY-OF-SERVICE**

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[52] **U.S. Cl.** ..... 370/95.1; 370/94.1

[58] **Field of Search** ..... 370/95.1, 94.1, 94.2, 370/60, 60.1, 95.3, 58.1, 58.2

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[57] **ABSTRACT**

A device and method allocate bandwidth on internodal links in a communication network such that worst case maximum delays and worst case average delays in a packet oriented network are guaranteed while providing statistical gains in maintaining predetermined end-to-end delay QOS objectives for different traffic types.

**9 Claims, 5 Drawing Sheets**